

"VERSION WITH MARKINGS TO SHOW CHANGES MADE"

IN THE CLAIMS:

Claim 1 has been amended as follows:

--1. (amended) A mobile radio communication system in which location-limited mobile stations can be used, comprising:

a registered area storage means in which information concerning registered areas, which have been registered as areas where a location-limited mobile station is allowed to originate a call, is stored with regard to each location-limited mobile station, where the registered areas of each location-limited mobile station can be altered to alternative registered areas during a preset time period;

a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of a location-limited mobile station when the location-limited mobile station originated a call;

an area comparison means for comparing the registered areas of the location-limited mobile station searched by the registered area search means with present location areas of the location-limited mobile station and thereby judging whether or not a match occurred between the registered areas and the present location areas; and

a connection establishment means for executing a connection establishment process for the location-limited mobile

station if a match occurred in the judgment by the area comparison means.--

Claim 4 has been amended as follows:

--4. (amended) A mobile radio communication system in which location-limited mobile stations can be used, comprising:

a registered area storage means in which information concerning registered areas, which have been registered as areas where a location-limited mobile station is allowed to conduct communication, is stored with regard to each location-limited mobile station, where the registered areas of each location-limited mobile station can be altered to alternative registered areas during a preset time period;

a present location area tracking means for keeping track of present location areas of a location-limited mobile station when the location-limited mobile station is conducting communication;

a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of the location-limited mobile station;

an area comparison means for comparing the registered areas of the location-limited mobile station searched by the registered area search means with the present location areas of the location-limited mobile station tracked by the present location area tracking means and thereby judging whether or not a

match occurred between the registered areas and the present location areas; and

a disconnection means for disconnecting the communication conducted by the location-limited mobile station if no match occurred in the judgment by the area comparison means.--

Claim 7 has been amended as follows:

--7. (amended) A mobile radio communication system in which location-limited mobile stations can be used, comprising:

a registered area storage means in which information concerning registered areas, which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call, is stored with regard to each location-limited mobile station, where the registered areas of each location-limited mobile station can be altered to alternative registered areas during a preset time period;

a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of a location-limited mobile station when an incoming call to the location-limited mobile station occurred;

an area comparison means for comparing the registered areas of the location-limited mobile station searched by the registered area search means with present location areas of the location-limited mobile station and thereby judging whether or not a match occurred between the registered areas and the present location areas; and

a connection establishment means for executing a connection establishment process for the location-limited mobile station if a match occurred in the judgment by the area comparison means.--

Claim 10 has been amended as follows:

--10. (amended) A mobile radio communication system in which location-limited mobile stations can be used, comprising:

a registered area storage means in which information concerning registered areas, which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call, is stored with regard to each location-limited mobile station, where the registered areas of each location-limited mobile station can be altered to alternative registered areas during a preset time period;

a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of a location-limited mobile station when an incoming call to the location-limited mobile station occurred;

a paging means for letting base transceiver stations corresponding to the registered areas page the location-limited mobile station in the registered areas; and

a connection establishment means for executing a connection establishment process for the location-limited mobile station if the location-limited mobile station made a response to the paging.--

Claim 13 has been amended as follows:

--13. (amended) A mobile radio communication system in which location-limited mobile stations can be used, comprising:

a registered area storage means in which information concerning registered areas, which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call, is stored with regard to each location-limited mobile station, where the registered areas of each location-limited mobile station can be altered to alternative registered areas during a preset time period;

a paging means for letting base transceiver stations page a location-limited mobile station when an incoming call to the location-limited mobile station occurred;

a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of the location-limited mobile station; and

a connection establishment means for executing a connection establishment process for the location-limited mobile station if the location-limited mobile station made a response to the paging from its registered areas.--

Claim 16 has been amended as follows:

--16. (amended) A mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, comprising the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to originate a call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when the location-limited mobile station originated a call;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if a match occurred in the area comparison step.--

Claim 19 has been amended as follows:

--19. (amended) A mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, comprising the steps of:

a present location area tracking step in which present location areas of a location-limited mobile station are kept track of when the location-limited mobile station is conducting communication;

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to conduct communication is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of the location-limited mobile station is searched for;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station tracked in the present location area tracking step and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a disconnection step in which the communication conducted by the location-limited mobile station is disconnected if no match occurred in the area comparison step.--

Claim 22 has been amended as follows:

--22. (amended) A mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, comprising the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when an incoming call to the location-limited mobile station occurred;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if a match occurred in the area comparison step.--

Claim 25 has been amended as follows:

--25. (amended) A mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, comprising the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when an incoming call to the location-limited mobile station occurred;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

a paging step in which the location-limited mobile station is paged in the registered areas; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if the location-limited mobile station made a response to the paging.--

Claim 28 has been amended as follows:

--28. (amended) A mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, comprising the steps of:

a paging step in which a location-limited mobile station is paged when an incoming call to the location-limited mobile station occurred;

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of the location-limited mobile station is searched for; [and]

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if the location-limited mobile station made a response to the paging from its registered areas.--

Claim 31 has been amended as follows:

--31. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, wherein the mobile radio communication method comprises the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to originate a call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when the location-limited mobile station originated a call;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if a match occurred in the area comparison step.--

Claim 34 has been amended as follows:

--34. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile radio communication system in which location-limited mobile

stations can be used, wherein the mobile radio communication method comprises the steps of:

a present location area tracking step in which present location areas of a location-limited mobile station are kept track of when the location-limited mobile station is conducting communication;

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to conduct communication is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of the location-limited mobile station is searched for;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station tracked in the present location area tracking step and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a disconnection step in which the communication conducted by the location-limited mobile station is disconnected if no match occurred in the area comparison step.--

Claim 37 has been amended as follows:

--37. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, wherein the mobile radio communication method comprises the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when an incoming call to the location-limited mobile station occurred;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station and thereby whether or not a

match occurred between the registered areas and the present location areas is judged; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if a match occurred in the area comparison step.--

Claim 40 has been amended as follows:

--40. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, wherein the mobile radio communication method comprises the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when an incoming call to the location-limited mobile station occurred;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

a paging step in which the location-limited mobile station is paged in the registered areas; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if the location-limited mobile station made a response to the paging.--

Claim 43 has been amended as follows:

--43. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, wherein the mobile radio communication method comprises the steps of:

a paging step in which a location-limited mobile station is paged when an incoming call to the location-limited mobile station occurred;

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of the location-limited mobile station is searched for; [and]

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period; and

KIDO S.N. 09/649,133

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if the location-limited mobile station made a response to the paging from its registered areas.--